

Amendments

In the Claims:

Please substitute the following claim 1 for the currently pending claim 1:

1. (Twice amended) A coating composition comprising the product of the reaction of:

C¹ a silane having at least one functional group selected from the group consisting of an isocyanate, an isothiocyanate, an ester, an anhydride, an acyl halide, an alkyl halide, an epoxide and an aziridine; and

a biopolymer,

wherein said product is capable of directly coating a surface of a substrate by covalent attachment of said silane to said substrate.

Please add the following claims:

rule 126 60 14. (New) A coating composition consisting essentially of the product of the reaction of:

C² a silane having at least one functional group selected from the group consisting of an isocyanate, an isothiocyanate, an ester, an anhydride, an acyl halide, an alkyl halide, an epoxide and an aziridine; and

a biopolymer.

⁶¹
15. (New) The coating composition of claim ⁶⁰14, wherein said functional group is an isocyanate.

⁶²
16. (New) The coating composition of claim ⁶¹15, wherein said biopolymer is heparin-tridodecylmethylammonium chloride.

⁶³
17. (New) The coating composition of claim ⁶²16, wherein said biopolymer is a complex selected from the group consisting of heparin-tridodecylmethylammonium chloride, heparin-benzalkonium chloride, heparin-stearalkonium chloride, heparin-poly-N-vinyl-pyrrolidone, heparin-lecithin, heparin-didodecyldimethylammonium bromide, heparin-pyridinium chloride, and heparin-synthetic glycolipid complex.

⁶⁴
18. (New) The coating composition of claim ⁶³17, wherein said biopolymer has hydroxyl or amine functional groups.

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19. (New) The coating composition of claim ⁶⁴18, wherein said biopolymer comprises heparin.

⁶⁶
20. (New) The coating composition of claim ⁶⁵19, wherein said biopolymer is provided in a form capable of dissolving in an organic solvent.

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21. (New) The coating composition of claim ⁶⁶20, wherein the biopolymer provides thromboresistance.

⁶⁸
22. (New) The coating composition of claim ⁶⁰14, wherein said biopolymer is heparin-tridodecylmethylammonium chloride.

⁶⁷
23. (New) The coating composition of claim ⁶⁰14, further comprising at least one additive selected from the group consisting of wetting agents, surface active agents and film forming agents.

⁷⁰
24. (New) The coating composition of claim ⁶⁰14, wherein said silane has an organic chain between isocyanate and silane functional groups.

⁷¹
25. (New) The coating composition of claim 1, wherein said silane and said biopolymer are reacted in a common solvent.

⁷²
26. (New) The coating composition of claim ⁷¹25, wherein said solvent is an anhydrous organic solvent.

⁷³
27. (New) The coating composition of claim ⁷²26, wherein said solvent is tetrahydrofuran.

⁷⁴
28. (New) The coating composition of claim ⁶⁰14, wherein said silane and said biopolymer are reacted in a common solvent.

⁷⁵
29. (New) The coating composition of claim ⁷⁴28, wherein said solvent is an anhydrous organic solvent.

⁷⁶
30. (New) The coating composition of claim ⁷⁵29, wherein said solvent is tetrahydrofuran.

⁷⁷
31. (New) The coating composition of claim ⁷¹25, wherein said functional group is an isothiocyanate, said biopolymer is heparin-tridodecylmethylammonium chloride, and said organic solvent is tetrahydrofuran.

⁷⁸
32. (New) The coating composition of claim ⁷⁴28, wherein said functional group is an isothiocyanate, said biopolymer is heparin-tridodecylmethylammonium chloride, and said organic solvent is tetrahydrofuran.

⁷⁹
33. (New) The coating composition of claim ⁶⁰14, wherein said product is capable of directly coating a surface of a substrate by covalent attachment of said silane to said substrate.
